

Bridge Inspection Report

Manchester 144/066

Date of Inspection: 11/07/2007

I-293,FEE TPK

Date Report Sent: 1/22/2008

Over

☒ Picture taken during inspection

N BR PISCATAQUOG RIVER

Owner: Turnpike Bureau, NHDOT

Interstate Bridge Number: 023

Recommended Postings:

Weight: No Posting Required

☒ Weight Sign OK

Width: Not Required

☒ Width Sign OK

Primary Height Sign Recommendation: None

Optional Centerline Height Sign Rec: None

Clearances: Over:
(Feet) Under: 0.00
Route:☒ Height Signs OK**Condition:** State Redlist

Deck: 4 Poor

Superstructure: 6 Satisfactory

Substructure: 4 Poor

Culvert: N N/A (NBI)

Structure Type and Materials:

Number of Spans Main Unit: 3

Number of Approach Spans: 0

Main Span Material and Design Type

Unknown (NBI) Channel Beam

Sufficiency Rating: 49.1%

NBI Status: Structurally Deficient

Bridge Rail: Substandard

Rail Transition: Meets Standards

Bridge Approach Rail: Substandard

Approach Rail Ends: Substandard

NH Bridge Type: I Beams w/ Concrete Deck

Deck Type: Concrete, Cast in Place

Wearing Surface: Bituminous

Membrane: Other

Deck Protection: None

Pavement thickness: Not Applicable

Curb Reveal: 4.5 in

Plan Location: B-16

Bridge Dimensions:

Length Maximum Span: 55.0 ft

Left Curb/Sidewalk Width: 0.7 ft

Width Curb to Curb: 72.0 ft

Approach Roadway Width (W/ Shoulders): 72.0 ft

Total Bridge Length: 148.0 ft

Right Curb/Sidewalk Width: 0.7 ft

Total Bridge Width: 84.9 ft

Median: Closed Med w/Barriers

Bridge Skew: 10.00 °

Bridge Service:

Type of Service on Bridge: Highway

Type of Service under: Waterway

Lanes on bridge: 4

Lanes Under: NA

AADT: 67000

Percent Trucks: 6%

Year of AADT: 2004

Future AADT: 99160

Year of Future AADT: 2025

Year Built: 1957

Year Rebuilt: Not Rebuilt

Detour Length: 16.0 mi

Bridge Inspection Report**Manchester 144/066**

Federal or State Definition Bridge: Fed. Definition Bridge
 Roadway Functional Class: Urban Interstate
 New Hampshire Highway System and Class: Interstate (Turnpike)
 Eligibility for the National Register of Historic Places: Not Eligible
 Traffic Direction: Two-way traffic

National Bridge Inventory (NBI) Appraisal Ratings:

Deck Geometry: Above Minimum Criteria
 Underclearances: Not Applicable (NBI)
 Approach Alignment: Equal Desirable Criteria
 Structural Evaluation: Minimum Tolerable
 Channel/Channel Protection: Protected
 Waterway Adequacy: Above Desirable Criteria
 Bridge Scour Critical Status: Stable for extreme flood
 Riprap Condition: Good Condition
 Debris Present: No Debris Present
 Date of Underwater Inspection: Not Applicable

AASHTO CoRe Element Condition State Data:

No.	Description	Env.	Material Notes and Condition Notes
14	Concrete Deck - Protected w/ Membrane and Pavement	Severe	ASPHALT- POTHOLED AT NORTH END OF NB LANE. CRACKS AT DECK ENDS, SOUTH BOUND WITH PATCHES AT NORTH AND SOUTH DECK ENDS. WEST DECK EDGE SPALLED WITH REBAR EXPOSED.
107	Painted Steel Beam or Girder (Open Web)	Severe	FEW AREAS OF PEELED PAINT, LIGHT RUST AND SCALE WITH MINOR SECTION LOSS AT BEAM ENDS.
210	Reinforced Concrete Pier Wall	Moderate	
215	Reinforced Concrete Abutment	Severe	CRACKED WITH HEAVY SPALLING AT ABUTMENTS.
301	Pourable Joint Seal (Includes Asphaltic Plug)	Severe	LIGHT ADHESIONS AT SOUTH. POTHOLES AT NORTH, ADHESION FAILURES.
311	Moveable Bearing (roller, sliding, etc.)	Severe	HEAVY RUSTING WITH SCALE UNDER LEAKAGE.
313	Fixed Bearing	Low	

Bridge Inspection Report

Manchester 144/066

No.	Description	Env.	Material Notes and Condition Notes
330	Uncoated Metal Bridge Railing	Benign	** 2-Bar Aluminum ** Hollow base plates. MINOR SCRAPES ON POST. TRANSITION POST DAMAGED AT NW. BOTTOM RAIL AT SOUTHWEST WITH MINOR COLLISION DAMAGE.
334	Coated Metal Bridge Railing	Severe	** Thrie Beam ** AT MEDIAN. SCRAPED.
359	Soffit of Conc Deck or Slab Condition Warning Flag	Severe	SPALLS WITH REBAR EXPOSED, MANY DELAMINATIONS, SOME LARGE AT SOUTH. HEAVY LEAKING IN AREAS.

No.	Description	Env.	Quantity	Units	State 1	State 2	State 3	State 4	State 5
14	Concrete Deck - Protected w/ Membran	Severe	12,562	(SF)	0 %	100 %	0 %	0 %	0 %
107	Painted Steel Beam or Girder (Open We	Severe	1,775	(LF)	44 %	36 %	10 %	10 %	0 %
210	Reinforced Concrete Pier Wall	Moderate	171	(LF)	100 %	0 %	0 %	0 %	
215	Reinforced Concrete Abutment	Severe	194	(LF)	0 %	0 %	90 %	10 %	
301	Pourable Joint Seal (Includes Asphaltic	Severe	131	(LF)	0 %	100 %	0 %		
311	Moveable Bearing (roller, sliding, etc.)	Severe	36	(EA)	0 %	67 %	33 %		
313	Fixed Bearing	Low	12	(EA)	100 %	0 %	0 %		
330	Uncoated Metal Bridge Railing	Benign	387	(LF)	94 %	0 %	6 %	0 %	
334	Coated Metal Bridge Railing	Severe	295	(LF)	0 %	100 %	0 %	0 %	0 %
359	Soffit of Conc Deck or Slab Condition W	Severe	1	(EA)	0 %	0 %	0 %	100 %	0 %

Bridge Notes:

Approach and Roadway Notes: PATCHED AREAS AT SOUTH DECK END NB, POTHOLES AT NORTH END NB.
TRANSITION POSTS AND RAIL DAMAGED AT SE.

Inspection History:

Inspection Date: 11/07/2007

Inspector: JEL

Deck: 4 Poor

Notes:

Super: 6 Satisfactory

JEL inspection comments -

Substr: 4 Poor

DECK: ASPHALT-FEW CRACKS,POTHOLES AT NORTH END OF NB LANE.

Culvert: N N/A (NBI)

SOFFIT-SPALLS WITH REBAR EXPOSED, SEVERAL DELAMINATIONS, SOME LARGE AT SOUTH. HEAVY LEAKING IN AREAS.

SUPERSTRUCTURE: FEW AREAS OF PEELED PAINT, LIGHT RUST AND SCALE WITH MINOR SECTION LOSS AT BEAM ENDS. TAB WELD CRACKED ON S5 AT NORTH. ROCKERS BEARINGS-RUSTED WITH LIGHT SCALE AND SECTION LOSS UNDER LEAKAGE.

PICTURE: B322-

26. POTHOLES AT NORTH END NB LANE.

Bridge Inspection Report

Manchester 144/066

Inspection History:**Inspection Date:** 03/26/2007**Inspector:** JEL**Deck:** 4 Poor**Notes:****Super:** 6 Satisfactory*JEL inspection comments -***Substr:** 4 Poor*DECK: ASPHALT-FEW CRACKS,POTHOLE AT SOUTH END OF NB LANE.
SOFFIT-SPALLS WITH REBAR EXPOSED, SEVERAL DELAMINATIONS, SOME LARGE AT SOUTH. HEAVY LEAKING IN AREAS.***Culvert:** N N/A (NBI)*SUPERSTRUCTURE: FEW AREAS OF PEELED PAINT, LIGHT RUST AND SCALE WITH MINOR SECTION LOSS AT BEAM ENDS. TAB WELD CRACKED ON S5 AT NORTH.
ROCKERS BEARINGS-RUSTED WITH LIGHT SCALE AND SECTION LOSS UNDER LEAKAGE.**PICTURE B303:**29. POTHOLE AT SOUTH END NB LANE.***Inspection Date:** 11/08/2006**Inspector:** JEL**Deck:** 4 Poor**Notes:****Super:** 6 Satisfactory*JEL inspection comments -***Substr:** 4 Poor*DECK:ASPHALT-FEW CRACKS,POTHOLE AT SOUTH END OF NB LANE.
SOFFIT-SPALLS WITH REBAR EXPOSED,
SEVERAL DELAMINATIONS, SOME LARGE AT SOUTH. HEAVY LEAKING IN AREAS.
SUPERSTRUCTURE:FEW AREAS OF PEELED PAINT, LIGHT RUST AND SCALE WITH MINOR SECTION LOSS AT BEAM ENDS.
TAB WELD CRACKED ON S5 AT NORTH.
ROCKERS BEARINGS-RUSTED WITH LIGHT SCALE AND SECTION LOSS UNDER LEAKAGE.***Culvert:** N N/A (NBI)*PICTURE B295:**25. POTHOLE AT SOUTH END NB LANE.***Inspection Date:** 03/10/2006**Inspector:** FNM**Deck:** 4 Poor**Notes:****Super:** 6 Satisfactory*FNM inspection comments -***Substr:** 4 Poor*DECK:ASPHALT-FEW CRACKS,POTHOLE AT SOUTH END OF NB LANE.
SOFFIT-SPALLS WITH REBAR EXPOSED,
SEVERAL DELAMINATIONS, SOME LARGE AT SOUTH. HEAVY LEAKING IN AREAS.
SUPERSTRUCTURE:FEW AREAS OF PEELED PAINT, LIGHT RUST AND SCALE WITH MINOR SECTION LOSS AT BEAM ENDS.
TAB WELD CRACKED ON S5 AT NORTH.
ROCKERS BEARINGS-RUSTED WITH LIGHT SCALE AND SECTION LOSS UNDER LEAKAGE.***Culvert:** N N/A (NBI)*PICTURES:B275-18.ASPHALT MISSING, HOLED OVER TOP OF BACKWALL AT NORTH DECKEND NB.**19.SPALLING, DELAMINATION IN SPAN 3.**20.TAB WELD CRACKED ON S5 AT NORTH.*

Bridge Inspection Report**Manchester 144/066****Inspection History:**

Inspection Date: 11/08/2005	Inspector: JEL	Deck: 4 Poor Super: 7 Good Substr: 4 Poor Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 02/22/2006 15:25:51 JEL inspection comments - RAIL: MINOR COLLISION DAMAGE TO BOTTOM RAIL AT SOUTHWEST DECK: WEST DECK EDGE SPALLED WITH REBAR EXPOSED. SOFFIT- SEVERAL SPALLS WITH REBAR EXPOSED, MANY DELAMINATIONS, SOME LARGE AT SOUTH. HEAVY LEAKING IN AREAS.		
Inspection Date: 03/31/2005	Inspector: FNM	Deck: 4 Poor Super: 7 Good Substr: 4 Poor Culvert: N N/A (NBI)
Notes: FNM inspection comments - DECK: WEST DECK EDGE SPALLED WITH REBAR EXPOSED. SOFFIT- SEVERAL SPALLS WITH REBAR EXPOSED, MANY DELAMINATIONS, SOME LARGE AT SOUTH. HEAVY LEAKING IN AREAS.		
PICTURE: B237-20. TRANSITION POST DAMAGED AT NW APPROACH (TYP OF SE)		
Inspection Date: 11/03/2004	Inspector: FNM	Deck: 4 Poor Super: 7 Good Substr: 4 Poor Culvert: N N/A (NBI)
Notes: FNM inspection comments - DECK: POOR SUBSTRUCTURE: POOR		
Inspection Date: 03/03/2004	Inspector: JEL	Deck: 4 Poor Super: 7 Good Substr: 4 Poor Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 7/1/2004 11:49:43 JEL inspection comments - DECK: SOFFIT- LARGE DELAMINATION WITH HEAVY LEAKING AT CENTER BAY AT SOUTH. POTHOLES AT DECK END POURABLE JOINT, SOUTH APPROACH SIDE NORTHBOUND LANES.		
PICS 199-16: POTHOLES AT DECK END POURABLE JOINT, SOUTH APPROACH SIDE NORTHBOUND LANES.		
Inspection Date: 11/03/2003	Inspector: FNM	Deck: 4 Poor Super: 7 Good Substr: 4 Poor Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 6/2/2004 14:03:52 FNM inspection comments - DECK: SOFFIT- LARGE DELAMINATION WITH HEAVY LEAKING AT CENTER BAY AT SOUTH.		
Inspection Date: 03/10/2003	Inspector: FNM	Deck: 4 Poor Super: 7 Good Substr: 4 Poor Culvert: N N/A (NBI)
Notes: FNM inspection comments - DECK: SOFFIT-LARGE DELAMINATED AREAS AT SOUTH.		
Inspection Date: 11/13/2002	Inspector: FNM	Deck: 4 Poor Super: 7 Good Substr: 4 Poor Culvert: N N/A (NBI)
Notes: FNM inspection comments - PICTURE: B160-25. APPROACH RAIL DAMAGED AT NW.		

Bridge Inspection Report**Manchester 144/066****Inspection History:**

Inspection Date: 03/08/2002	Inspector: JEL	Deck: 4 Poor Super: 7 Good Substr: 4 Poor Culvert: N N/A (NBI)
Notes: <i>Sufficiency Rating Calculation Accepted by DEP at 07/23/2002 12:59:57</i> <i>JEL inspection comments -</i> <i>APPROACH RAIL POST DAMAGED AT NORTHWEST. CRACKS AT DECK ENDS, LIGHT ADHESIONS AT SOUTH. CONTINUED DETERIORATION OF DECK UNDERSURFACE WITH SPALLS WITH REBAR EXPOSED AND DELAMINATIONS.</i>		
Inspection Date: 10/24/2001	Inspector: JEL	Deck: 4 Poor Super: 7 Good Substr: 4 Poor Culvert: N N/A (NBI)
Notes: <i>JEL inspection comments -</i> <i>APPROACH RAIL POST DAMAGED AT SOUTHEAST AND NORTHWEST. CRACKS AT DECK ENDS, SOUTH BOUND WITH PATCHES AT NORTH AND SOUTH DECK ENDS. CONTINUED DETERIORATION OF DECK UNDERSURFACE WITH SPALLS WITH REBAR EXPOSED AND DELAMINATIONS</i>		
Inspection Date: 03/19/2001	Inspector: JEL	Deck: 4 Poor Super: 7 Good Substr: 4 Poor Culvert: N N/A (NBI)
Notes: <i>JEL inspection comments -</i> <i>APPROACH RAIL POST DAMAGED AT SOUTHEAST AND NORTHWEST. CONTINUED DETERIORATION OF DECK UNDERSURFACE WITH SPALLS WITH REBAR EXPOSED AND DELAMINATIONS</i>		
Inspection Date: 11/09/2000	Inspector: JEL	Deck: 4 Poor Super: 7 Good Substr: 4 Poor Culvert: N N/A (NBI)
Notes: <i>JEL inspection comments</i> <i>CONTINUED DETERIORATION OF DECK UNDERSURFACE WITH SPALLS WITH REBAR EXPOSED AND DELAMINATIONS</i>		
Inspection Date: 11/09/2000	Inspector: JEL	Deck: 4 Poor Super: 7 Good Substr: 4 Poor Culvert: N N/A (NBI)
Notes: <i>JEL inspection comments</i> <i>APPROACH RAIL POST DAMAGED AT SOUTHEAST AND NORTHWEST</i> <i>CONTINUED DETERIORATION OF DECK UNDERSURFACE WITH SPALLS WITH REBAR EXPOSED AND DELAMINATIONS</i>		
 <i>PICTURES B124-</i> <i>27. APPROACH RAIL POST DAMAGED AT SOUTHEAST.</i> <i>28. APPROACH RAIL DAMAGED AT NORTHWEST.</i>		
Inspection Date: 03/10/2000	Inspector: JEL	Deck: 4 Poor Super: 7 Good Substr: 4 Poor Culvert: N N/A (NBI)
Notes: <i>Sufficiency Rating Calculation Accepted by DEP at 10-11-2000 08:15:36</i> <i>JEL inspection comments</i> <i>CONTINUED DETERIORATION OF DECK UNDERSURFACE WITH SPALLS WITH REBAR EXPOSED AND DELAMINATIONS</i>		

Bridge Inspection Report**Manchester 144/066****Inspection History:**

Inspection Date: 11/10/1999	Inspector: FNM	Deck: 4 Poor Super: 7 Good Substr: 4 Poor Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 12-10-1999 16:31:45 DECK- DECK ENDS REPAIRED 1998, POURABLE JOINT INSTALLED AT SOUTH; FULL DEPTH PATCHES, AREAS STILL DELAMINATING. SPALLING AND LEAKING WITH REBAR EXPOSED. CURBS SPALLED WITH REBAR EXPOSED. SUPERSTRUCTURE: ROCKERS RUSTED, RESTRICTED BY DEBRIS. I-BEAMS RUSTED AT ENDS, LIGHT SCALE, MINOR SECTION LOSS. SUB- ABUTMENTS AND BRIDGESEATS, HEAVILY SPALLED WITH REBAR EXPOSED, BACKWALLS PATCHED.		
PICTURES: B066-18 to 20		
Inspection Date: 03/31/1999	Inspector: JEL	Deck: 4 Poor Super: 8 Very Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 09-07-1999 14:45:33 JEL inspection comments - ALUMINUM RAIL AT EXTERIORS, THRIE BEAM AT CENTERLINE. DECK- DECK ENDS REPAIRED 1998, POURABLE JOINT INSTALLED AT SOUTH; FULL DEPTH PATCHES, AREAS STILL DELAMINATING. SPALLING AND LEAKING WITH REBAR EXPOSED SUB- ABUTMENTS AND BRIDGESEATS, SPALLED WITH REBAR EXPOSED, BACKWALLS PATCHED.		
Inspection Date: 11/24/1998	Inspector: JEL	Deck: 4 Poor Super: 8 Very Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 02-10-1999 15:45:01 INSPECTION COMMENTS ALUMINUM RAIL AT EXTERIORS, NEW THRIE BEAM INSTALLED AT CENTERLINE. DECK-DECK ENDS REPAIRED 1998, POURABLE JOINT INSTALLED AT SOUTH, FULL DEPTH PATCHES, AREAS STILL WITH DELAMINATIONS, SPALLS WITH REBAR EXPOSED, LEAKING SUPER-OK SUB-ABUTMENTS AND BRIDGESEATS, SPALLED WITH REBAR EXPOSED, BACKWALLS PATCHED, PIERWALLS-OK		
Inspection Date: 03/01/1998	Inspector: Not Available	Deck: 4 Poor Super: 8 Very Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by dep at 8-20-1998 08:19:11		
Inspection Date: 10/01/1997	Inspector: Not Available	Deck: 4 Poor Super: 8 Very Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes:		
Inspection Date: 05/01/1997	Inspector: Not Available	Deck: 4 Poor Super: 8 Very Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes:		

Bridge Inspection Report**Manchester 144/066****Inspection History:****Inspection Date:** 04/01/1995**Inspector:** Not Available**Deck:** 5 Fair**Notes:****Super:** 8 Very Good**Substr:** 5 Fair**Culvert:** N N/A (NBI)**Inspection Date:** 07/01/1993**Inspector:** Not Available**Deck:** 5 Fair**Notes:****Super:** 8 Very Good**Substr:** 5 Fair**Culvert:** N N/A (NBI)**Bridge Lighting and Utilities:** CONDUIT PIPE HOLED AT NW ABUTMENT**Copy Distribution:**☐

(2) Bureau of Municipal Hghways

☐

(3) Bureau of Municipal Hghways

☒

Bureau of Turnpikes

☐

Border State

☐

Bureau of Rail and Transit

☐

Army Corps Of Engineers

☐

Railroad

☐

Dept. of Res. and Econ. Dev.

☐

Dept. of Environmental Services

☐

USDA Forest Service

☐

Bureau of Traffic

Bridge Inspection Report

Manchester 146/064

Date of Inspection: 11/07/2007

I-293,FEE TPK

Date Report Sent: 1/22/2008

Over

☒ Picture taken during inspection

S BR PISCATAQUOG RIVER

Owner: Turnpike Bureau, NHDOT

Interstate Bridge Number: 022

Recommended Postings:

Weight: No Posting Required

☒ Weight Sign OK

Width: Not Required

☒ Width Sign OK

Primary Height Sign Recommendation: None

Optional Centerline Height Sign Rec: None

Clearances: Over:
(Feet) Under: 0.00
Route:☒ Height Signs OK**Condition:** State Redlist

Deck: 4 Poor

Superstructure: 6 Satisfactory

Substructure: 5 Fair

Culvert: N N/A (NBI)

Structure Type and Materials:

Number of Spans Main Unit: 3

Number of Approach Spans: 0

Main Span Material and Design Type

Steel Continuous Multiple Beam

Sufficiency Rating: 62%

NBI Status: Structurally Deficient

Bridge Rail: Substandard

Rail Transition: Substandard

Bridge Approach Rail: Meets Standards

Approach Rail Ends: Meets Standards

NH Bridge Type: I Beams w/ Concrete Deck

Deck Type: Concrete, Cast in Place

Wearing Surface: Bituminous

Membrane: Other

Deck Protection: None

Pavement thickness: Not Applicable

Curb Reveal: 6.0 in

Plan Location: B-15

Bridge Dimensions:

Length Maximum Span: 80.0 ft

Left Curb/Sidewalk Width: 0.7 ft

Width Curb to Curb: 60.0 ft

Approach Roadway Width (W/ Shoulders): 60.0 ft

Total Bridge Length: 213.0 ft

Right Curb/Sidewalk Width: 0.7 ft

Total Bridge Width: 69.8 ft

Median: Closed Med w/Barriers

Bridge Skew: 0.00 °

Bridge Service:

Type of Service on Bridge: Highway

Type of Service under: Waterway

Lanes on bridge: 4

Lanes Under: NA

AADT: 67000

Percent Trucks: 6%

Year of AADT: 2004

Future AADT: 99160

Year of Future AADT: 2025

Year Built: 1957

Year Rebuilt: Not Rebuilt

Detour Length: 4.0 mi

Bridge Inspection Report

Manchester 146/064

Federal or State Definition Bridge: Fed. Definition Bridge
 Roadway Functional Class: Urban Interstate
 New Hampshire Highway System and Class: Interstate (Turnpike)
 Eligibility for the National Register of Historic Places: Not Eligible
 Traffic Direction: Two-way traffic

National Bridge Inventory (NBI) Appraisal Ratings:

Deck Geometry: Minimum Tolerable
 Underclearances: Not Applicable (NBI)
 Approach Alignment: Equal Desirable Criteria
 Structural Evaluation: Above Min. Tolerable
 Channel/Channel Protection: Minor Damage
 Waterway Adequacy: Above Desirable Criteria
 Bridge Scour Critical Status: Stable for extreme flood
 Riprap Condition: Fair Condition
 Debris Present: Debris Present
Minor debris.
 Date of Underwater Inspection: Not Applicable

AASHTO CoRe Element Condition State Data:

No.	Description	Env.	Material Notes and Condition Notes
14	Concrete Deck - Protected w/ Membrane and Pavement	Severe	ASPHALT-FEW CRACKS, SMALL DEPRESSED AREA IN SB LANE WITH FINES LEACHING UP THROUGH.
107	Painted Steel Beam or Girder (Open Web)	Severe	RUSTED WITH MINOR SECTION LOSS UNDER OLD LEAKAGE. PAINT PEELING IN ALL THREE SPANS.
210	Reinforced Concrete Pier Wall	Moderate	
215	Reinforced Concrete Abutment	Severe	LIGHT AND MEDIUM CRACKS AND SPALLS WITH REBAR EXPOSED.
301	Pourable Joint Seal (Includes Asphaltic Plug)	Severe	MINOR ADHESION FAILURES AT SOUTHWEST.
311	Moveable Bearing (roller, sliding, etc.)	Severe	ROCKERS RUSTED WITH MINOR SECTION LOSS.
313	Fixed Bearing	Low	

Bridge Inspection Report

Manchester 146/064

No.	Description	Env.	Material Notes and Condition Notes
313	Fixed Bearing	Moderate	
330	Uncoated Metal Bridge Railing	Benign	** 2-Bar Aluminum **
330	Uncoated Metal Bridge Railing	Severe	** Thrie Beam ** Median Rail
359	Soffit of Conc Deck or Slab Condition Warning Flag	Severe	HEAVY SPALLING WITH REBAR EXPOSED WITH SECTION LOSS IN MANY AREAS, DELAMINATIONS, LEAKING.

No.	Description	Env.	Quantity	Units	State 1	State 2	State 3	State 4	State 5
14	Concrete Deck - Protected w/ Membran	Severe	14,865	(SF)	0 %	100 %	0 %	0 %	0 %
107	Painted Steel Beam or Girder (Open We	Severe	2,133	(LF)	30 %	20 %	40 %	10 %	0 %
210	Reinforced Concrete Pier Wall	Moderate	141	(LF)	100 %	0 %	0 %	0 %	
215	Reinforced Concrete Abutment	Severe	174	(LF)	0 %	0 %	100 %	0 %	
301	Pourable Joint Seal (Includes Asphaltic	Severe	226	(LF)	95 %	5 %	0 %		
311	Moveable Bearing (roller, sliding, etc.)	Severe	30	(EA)	40 %	60 %	0 %		
313	Fixed Bearing	Low	10	(EA)	100 %	0 %	0 %		
313	Fixed Bearing	Moderate	10	(EA)	100 %	0 %	0 %		
330	Uncoated Metal Bridge Railing	Benign	518	(LF)	100 %	0 %	0 %	0 %	
330	Uncoated Metal Bridge Railing	Severe	427	(LF)	100 %	0 %	0 %	0 %	
359	Soffit of Conc Deck or Slab Condition W	Severe	1	(EA)	0 %	0 %	0 %	100 %	0 %

Bridge Notes:

Approach and Roadway Notes: ASPHALT-LIGHT CRACKS. MINOR DAMAGE AT SE AND NW APPROACH RAIL

Inspection History:

Inspection Date: 11/07/2007

Inspector: JEL

Deck: 4 Poor

Notes:

Super: 6 Satisfactory

JEL inspection comments -

Substr: 5 Fair

POURABLE JOINT WITH MINOR ADHESION FAILURES AT SOUTHWEST.

Culvert: N N/A (NBI)

DECK: ASPHALT-FEW CRACKS, SMALL DEPRESSED AREA IN SB LANE WITH FINES

LEACHING UP THROUGH.

SOFFIT - HEAVY SPALLING, LARGE DELAMINATIONS.

PICTURE: B322-

24. DEPRESSED AREA IN SB LANE, SPAN THREE.

Bridge Inspection Report**Manchester 146/064****Inspection History:**

Inspection Date: 03/26/2007	Inspector: JEL	Deck: 4 Poor
Notes:		Super: 6 Satisfactory
<i>JEL inspection comments -</i>		Substr: 5 Fair
<i>DECK: ASPHALT-FEW CRACKS, SMALL DEPRESSED AREA IN SB LANE WITH FINES LEACHING UP THROUGH.</i>		Culvert: N N/A (NBI)
<i>SOFFIT - HEAVY SPALLING, LARGE DELAMINATIONS.</i>		

Inspection Date: 11/08/2006	Inspector: JEL	Deck: 4 Poor
Notes:		Super: 6 Satisfactory
<i>JEL inspection comments -</i>		Substr: 5 Fair
<i>DECK: ASPHALT-FEW CRACKS, SMALL DEPRESSED AREA IN SB LANE WITH FINES LEACHING UP THROUGH.</i>		Culvert: N N/A (NBI)
<i>SOFFIT - HEAVY SPALLING, LARGE DELAMINATIONS.</i>		

*PICTURES B295**20. SPAN THREE, BAY FOUR HEAVY LEAKING, DELAMINATION**21. SPAN THREE, SB LANE DEPRESSED AREA, CRACKS IN ASPHALT.*

Inspection Date: 03/09/2006	Inspector: JEL	Deck: 4 Poor
Notes:		Super: 6 Satisfactory
<i>JEL inspection comments -</i>		Substr: 5 Fair
<i>DECK: ASPHALT-FEW CRACKS, SMALL DEPRESSED AREA IN SB LANE WITH FINES LEACHING UP THROUGH.</i>		Culvert: N N/A (NBI)
<i>SOFFIT - HEAVY SPALLING, LARGE DELAMINATIONS.</i>		

Inspection Date: 11/08/2005	Inspector: FNM	Deck: 4 Poor
Notes:		Super: 6 Satisfactory
<i>Sufficiency Rating Calculation Accepted by DEP at 02/22/2006 15:25:51</i>		Substr: 5 Fair
<i>FNM inspection comments -</i>		Culvert: N N/A (NBI)
<i>DECK: ASPHALT-FEW CRACKS, SMALL DEPRESSED AREA IN SB LANE WITH FINES LEACHING UP THROUGH.</i>		
<i>SOFFIT - HEAVY SPALLING, LARGE DELAMINATIONS.</i>		

*PICTURES: B267-**21. HOMELESS ABODE UNDER BRIDGE AT SOUTH.**22. LARGE DELAMINATION UNDER DECK IN SPAN 2 WESTERNMOST BAY. (TYPICAL OF FEW IN SPANS 1, 2)*

Inspection Date: 03/31/2005	Inspector: JEL	Deck: 4 Poor
Notes:		Super: 7 Good
<i>JEL inspection comments -</i>		Substr: 5 Fair
<i>DECK- POOR, SOFFIT WITH DELAMINATIONS, SPALLS WITH REBAR EXPOSED.</i>		Culvert: N N/A (NBI)
<i>SUPER: PAINT PEELING FROM BEAMS IN ALL THREE SPANS.</i>		

Bridge Inspection Report**Manchester 146/064****Inspection History:**

Inspection Date: 11/03/2004	Inspector: JEL	Deck: 4 Poor Super: 7 Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes: JEL inspection comments - DECK- POOR, SOFFIT WITH DELAMINATIONS, SPALLS WITH REBAR EXPOSED. SUPER: PAINT PEELING FROM BEAMS IN ALL THREE SPANS.		
Inspection Date: 03/03/2004	Inspector: FNM	Deck: 4 Poor Super: 7 Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 7/1/2004 11:49:43 FNM inspection comments - SUPER: PAINT PEELING FROM BEAMS IN ALL THREE SPANS. PICTURE: B199-14. VIEW OF PEELING PAINT IN SPAN THREE.		
Inspection Date: 11/03/2003	Inspector: JEL	Deck: 4 Poor Super: 7 Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 6/2/2004 14:03:52 JEL inspection comments - DECK ENDS REPAVED. CONTINUED DECK DELAMINATIONS AND CRACKS AND SPALLS WITH REBAR EXPOSED ON UNDERSURFACE. PAINT PEELING IN AREAS SPAN ONE.		
Inspection Date: 03/10/2003	Inspector: JEL	Deck: 4 Poor Super: 7 Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 11/03/2003 09:39:48 JEL inspection comments - POTHOLE AT SOUTHEAST, LARGE PATCHED AREA AT NORTH. CONTINUED DECK DELAMINATIONS AND CRACKS AND SPALLS WITH REBAR EXPOSED ON UNDERSURFACE. PAINT PEELING IN AREAS SPAN ONE. RAIL POST BROKEN AT NORTHWEST APPROACH.		
Inspection Date: 11/13/2002	Inspector: JEL	Deck: 4 Poor Super: 7 Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes: JEL inspection comments - POTHOLE AT SOUTHEAST, LARGE PATCHED AREA AT NORTH. CONTINUED DECK DELAMINATIONS AND CRACKS AND SPALLS WITH REBAR EXPOSED ON UNDERSURFACE. PICTURES B160- 23. POTHOLE AT SOUTHEAST. 24. RAIL POST BROKE AT NORTHWEST.		
Inspection Date: 03/07/2002	Inspector: FNM	Deck: 4 Poor Super: 7 Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 07/23/2002 12:59:57 FNM inspection comments-		
Inspection Date: 10/24/2001	Inspector: FNM	Deck: 4 Poor Super: 7 Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes: FNM inspection comments - APPROACH RAIL AND POST DAMAGED AT NW.		

Bridge Inspection Report**Manchester 146/064****Inspection History:**

Inspection Date: 03/19/2001 Notes: <i>FNM inspection comments -</i> <i>PICTURES: B124- 25. APPROACH POST AND RAIL DAMAGED AT NW. 26. CRACK AND SMALL POTHOLE STARTED AT NORTH DECK END.</i>	Inspector: FNM	Deck: 4 Poor Super: 7 Good Substr: 5 Fair Culvert: N N/A (NBI)
Inspection Date: 11/09/2000 Notes: <i>FNM inspection comments - DECK: HEAVILY SPALLED AND DELAMINATED, COATED WITH BLACK SOOT, CENTERLINE BAY SOUTH END.</i>	Inspector: FNM	Deck: 4 Poor Super: 7 Good Substr: 5 Fair Culvert: N N/A (NBI)
Inspection Date: 03/10/2000 Notes: <i>Sufficiency Rating Calculation Accepted by DEP at 10-11-2000 08:15:37 FNM inspection comments - DECK: HEAVILY SPALLED AND DELAMINATED, COATED WITH BLACK SOOT, CENTERLINE BAY SOUTH END.</i> <i>PICTURES: B021-33 to 37 & B029-38</i>	Inspector: FNM	Deck: 4 Poor Super: 8 Very Good Substr: 5 Fair Culvert: N N/A (NBI)
Inspection Date: 11/10/1999 Notes: <i>Sufficiency Rating Calculation Accepted by DEP at 12-10-1999 16:31:45 JEL inspection comments - RAIL- ALUMINUM, MEDIAN THRIE BEAM WEATHERING STEEL Deck: Full depth patches, delaminations and spalls with rebar exposed. Deck ends rehabed, with new poured joint and median beam rail. Concrete median has a minor spall. Superstructure: Rust at beam ends. Substructure: Cracks and spalls with rebar exposed. Backwalls rehabed.</i>	Inspector: JEL	Deck: 4 Poor Super: 8 Very Good Substr: 5 Fair Culvert: N N/A (NBI)
Inspection Date: 03/31/1999 Notes: <i>Sufficiency Rating Calculation Accepted by DEP at 09-07-1999 14:45:33 RLM inspection comments - Approach asphalt heavily cracked at north. Approach W-beam has accident damage at southeast. Deck: Full depth patches, delaminations and spalls with rebar exposed. Deck ends rehabed, with new poured joint and median beam rail. Concrete median has a minor spall. Superstructure: Rust at beam ends. Substructure: Cracks and spalls with rebar exposed. Backwalls rehabed. Electrical conduit holed at the north abutment.</i>	Inspector: RLM	Deck: 4 Poor Super: 8 Very Good Substr: 5 Fair Culvert: N N/A (NBI)
Inspection Date: 11/24/1998 Notes: <i>Sufficiency Rating Calculation Accepted by DEP at 02-10-1999 15:45:02 RLM inspection comments - New deck pavement 11/98. Deck: Full depth patches, delaminations and spalls with rebar exposed. Deck ends rehabed, with new poured joint and median beam rail. Superstructure: Rust at beam ends. Substructure: Cracks and spalls. Backwalls rehabed. Pier ok.</i>	Inspector: RLM	Deck: 4 Poor Super: 8 Very Good Substr: 5 Fair Culvert: N N/A (NBI)

Bridge Inspection Report**Manchester 146/064****Inspection History:**

Inspection Date: 03/01/1998 Notes: <i>Sufficiency Rating Calculation Accepted by dep at 8-20-1998 08:19:12</i>	Inspector: Not Available	Deck: 4 Poor Super: 8 Very Good Substr: 5 Fair Culvert: N N/A (NBI)
Inspection Date: 10/01/1997 Notes:	Inspector: Not Available	Deck: 4 Poor Super: 8 Very Good Substr: 5 Fair Culvert: N N/A (NBI)
Inspection Date: 05/01/1997 Notes:	Inspector: Not Available	Deck: 4 Poor Super: 8 Very Good Substr: 5 Fair Culvert: N N/A (NBI)
Inspection Date: 04/01/1995 Notes:	Inspector: Not Available	Deck: 5 Fair Super: 8 Very Good Substr: 6 Satisfactory Culvert: N N/A (NBI)
Inspection Date: 07/01/1993 Notes:	Inspector: Not Available	Deck: 5 Fair Super: 8 Very Good Substr: 6 Satisfactory Culvert: N N/A (NBI)

Bridge Lighting and Utilities: *SMALL PIPE AT CENTERLINE***Copy Distribution:**

<input type="checkbox"/> (2) Bureau of Municipal Hghways	<input type="checkbox"/> Border State	<input type="checkbox"/> Dept. of Res. and Econ. Dev.
<input type="checkbox"/> (3) Bureau of Municipal Hghways	<input type="checkbox"/> Bureau of Rail and Transit	<input type="checkbox"/> Dept. of Environmental Services
<input checked="" type="checkbox"/> Bureau of Turnpikes	<input type="checkbox"/> Army Corps Of Engineers	<input type="checkbox"/> USDA Forest Service
	<input type="checkbox"/> Railroad	<input type="checkbox"/> Bureau of Traffic

Bridge Inspection Report**Manchester 146/065****Date of Inspection:** 11/07/2007**Date Report Sent:** 1/22/2008☒ Picture taken during inspection

Owner: Turnpike Bureau, NHDOT

I-293,FEE TPK SPUR

Over

S BR PISCATAQUOG RIVER

Interstate Bridge Number: 022A**Recommended Postings:**

Weight: No Posting Required

☒ Weight Sign OK

Width: Not Required

☒ Width Sign OKPrimary Height Sign Recommendation: *None*Optional Centerline Height Sign Rec: *None***Clearances:** Over:
(Feet) Under: 0.00
Route:☒ Height Signs OK**Condition:** State Redlist

Deck: 4 Poor

Superstructure: 6 Satisfactory

Substructure: 5 Fair

Culvert: N N/A (NBI)

Structure Type and Materials:

Number of Spans Main Unit: 3

Number of Approach Spans: 0

Main Span Material and Design Type

Steel Continuous Multiple Beam

Sufficiency Rating: 74.6%**NBI Status:** Structurally Deficient

Bridge Rail: Substandard

Rail Transition: Meets Standards

Bridge Approach Rail: Meets Standards

Approach Rail Ends: Meets Standards

NH Bridge Type: I Beams w/ Concrete Deck

Deck Type: Concrete, Cast in Place

Wearing Surface: Bituminous

Membrane: Other

Deck Protection: None

Pavement thickness: Not Applicable

Curb Reveal: 6.5 in

Plan Location: B-14

Bridge Dimensions:

Length Maximum Span: 81.0 ft

Left Curb/Sidewalk Width: 0.7 ft

Width Curb to Curb: 20.0 ft

Approach Roadway Width (W/ Shoulders): 20.0 ft

Total Bridge Length: 216.0 ft

Right Curb/Sidewalk Width: 0.7 ft

Total Bridge Width: 25.8 ft

Median: No median

Bridge Skew: 10.00 °

Bridge Service:

Type of Service on Bridge: Highway

Type of Service under: Waterway

Lanes on bridge: 1

Lanes Under: NA

AADT: 6000

Percent Trucks: 6%

Year of AADT: 1992

Future AADT: 8880

Year of Future AADT: 2025

Year Built: 1957

Year Rebuilt: Not Rebuilt

Detour Length: 4.0 mi

Bridge Inspection Report

Manchester 146/065

Federal or State Definition Bridge: Fed. Definition Bridge
 Roadway Functional Class: Urban Interstate
 New Hampshire Highway System and Class: Interstate (Turnpike)
 Eligibility for the National Register of Historic Places: Not Eligible
 Traffic Direction: One-way traffic

National Bridge Inventory (NBI) Appraisal Ratings:

Deck Geometry: Above Min. Tolerable
 Underclearances: Not Applicable (NBI)
 Approach Alignment: Equal Desirable Criteria
 Structural Evaluation: Above Min. Tolerable
 Channel/Channel Protection: Minor Damage
 Waterway Adequacy: Above Desirable Criteria
 Bridge Scour Critical Status: Not evaluated yet
 Riprap Condition: Good Condition
 Debris Present: Debris Present
TREE LIMBS AT PIER
 Date of Underwater Inspection: Not Applicable

AASHTO CoRe Element Condition State Data:

No.	Description	Env.	Material Notes and Condition Notes
14	Concrete Deck - Protected w/ Membrane and Pavement	Severe	ASPHALT- REPAVED 2007. CURBS HEAVILY SPALLED.
107	Painted Steel Beam or Girder (Open Web)	Moderate	4 I-BEAMS FEW AREAS OF HEAVY RUST AND SCALE WITH MINOR SECTION LOSS. PAINT PEELING OFF AND POOR IN AREAS. FEW AREAS REPAINTED AT SOUTH.
210	Reinforced Concrete Pier Wall	Moderate	
215	Reinforced Concrete Abutment	Severe	TOP OF BACKWALL DETERIORATED AT NORTHEAST AND NORTHWEST. BACKWALLS SPALLED AT FAILED PATCHES.
302	Compression Joint Seal	Severe	COMP SEAL OUT OF EXTRUSION AT SE. STOP BARS DOWN.
311	Moveable Bearing (roller, sliding, etc.)	Severe	BEARINGS AT SOUTH REPAINTED. OTHERS RUSTED.
313	Fixed Bearing	Low	

Bridge Inspection Report

Manchester 146/065

No.	Description	Env.	Material Notes and Condition Notes						
330	Uncoated Metal Bridge Railing	Benign	** 2-Bar Aluminum ** RAIL AND POSTS DAMAGED AT WEST.						
359	Soffit of Conc Deck or Slab Condition Warning Flag	Severe	SEVERAL DELAMINATIONS, HEAVY SPALLING WITH REBAR EXPOSED AND RUSTED, HEAVY LEAKING.						
No.	Description	Env.	Quantity	Units	State 1	State 2	State 3	State 4	State 5
14	Concrete Deck - Protected w/ Membran	Severe	5,576	(SF)	0 %	0 %	100 %	0 %	0 %
107	Painted Steel Beam or Girder (Open We	Moderate	866	(LF)	17 %	19 %	52 %	12 %	0 %
210	Reinforced Concrete Pier Wall	Moderate	52	(LF)	100 %	0 %	0 %	0 %	
215	Reinforced Concrete Abutment	Severe	69	(LF)	0 %	95 %	5 %	0 %	
302	Compression Joint Seal	Severe	52	(LF)	88 %	12 %	0 %		
311	Moveable Bearing (roller, sliding, etc.)	Severe	12	(EA)	67 %	33 %	0 %		
313	Fixed Bearing	Low	4	(EA)	100 %	0 %	0 %		
330	Uncoated Metal Bridge Railing	Benign	518	(LF)	97 %	0 %	0 %	3 %	
359	Soffit of Conc Deck or Slab Condition W	Severe	1	(EA)	0 %	0 %	0 %	100 %	0 %

Bridge Notes:

Approach and Roadway Notes: ASPHALT- REPAVED 2007. W-BEAM AND POSTS DAMAGED AT SOUTHEAST.

Inspection History:

Inspection Date: 11/07/2007	Inspector: FNM	Deck: 4 Poor Super: 6 Satisfactory Substr: 5 Fair Culvert: N N/A (NBI)
Notes: FNM inspection comments - DECK: SOFFIT-SEVERAL DELAMINATIONS, HEAVY SPALLING WITH REBAR EXPOSED AND RUSTED, HEAVY LEAKING. PICTURE: B322- 25. EAST CURB HEAVILY SPALLED.		
Inspection Date: 03/26/2007	Inspector: JEL	Deck: 4 Poor Super: 6 Satisfactory Substr: 5 Fair Culvert: N N/A (NBI)
Notes: JEL inspection comments - DECK: SOFFIT-SEVERAL DELAMINATIONS, HEAVY SPALLING WITH REBAR EXPOSED AND RUSTED, HEAVY LEAKING. PICTURES B303- 25. SOUTH ABUTMENT, HEAVILY TRASHED 26. SOUTH SLOPE, HEAVILY TRASHED 27. EAST CURB HEAVILY SPALLED, REBAR EXPOSED		

Bridge Inspection Report**Manchester 146/065****Inspection History:**

Inspection Date: 11/08/2006	Inspector: FNM	Deck: 4 Poor
Notes:		Super: 6 Satisfactory
<i>FNM inspection comments -</i>		Substr: 5 Fair
<i>DECK: SOFFIT- SEVERAL DELAMINATIONS, HEAVY SPALLING WITH REBAR EXPOSED</i>		Culvert: N N/A (NBI)
<i>AND RUSTED, HEAVY LEAKING.</i>		

PICTURES B295- 22. EAST CURB HEAVILY SPALLED.
23. LARGE POTHOLE AT APPROACH SIDE OF NW JOINT.
24. COMP SEAL OUT OF EXTRUSION AT SE.

Inspection Date: 03/09/2006	Inspector: FNM	Deck: 4 Poor
Notes:		Super: 6 Satisfactory
<i>FNM inspection comments -</i>		Substr: 5 Fair
<i>PICTURE: B275-17. ASPHALT MISSING, TOP OF BACKWALL EXPOSED AND SPALLED AT NW DECK END.</i>		Culvert: N N/A (NBI)

Inspection Date: 11/08/2005	Inspector: FNM	Deck: 4 Poor
Notes:		Super: 7 Good
<i>Sufficiency Rating Calculation Accepted by DEP at 02/22/2006 15:25:51</i>		Substr: 5 Fair
<i>FNM inspection comments -</i>		Culvert: N N/A (NBI)
<i>HOMELESS PEOPLE USING BRIDGE TO DEFECATE UNDER AT SOUTH.</i>		

PICTURES: B267-
23. SPALLING AND DELAMINATION IN SPAN 3 (TYP OF SEVERAL AREAS).
24. TOP OF EXPOSED BACKWALL W/LIGHT SPALL AT NW DECK END.

Inspection Date: 03/31/2005	Inspector: JEL	Deck: 4 Poor
Notes:		Super: 7 Good
<i>JEL inspection comments -</i>		Substr: 5 Fair
<i>DECK- DELAMINATIONS AND SPALLS WITH REBAR EXPOSED.</i>		Culvert: N N/A (NBI)
<i>SUPERSTRUCTURE- PAINT HEAVILY PEELING IN SPANS ONE AND THREE.</i>		
<i>SUB. - TOP OF BACKWALL WITH DETERIORATION AT NORTHEAST AND NORTHWEST.</i>		
<i>BACKWALLS SPALLED AT FAILED PATCHES.</i>		

Inspection Date: 11/03/2004	Inspector: JEL	Deck: 4 Poor
Notes:		Super: 7 Good
<i>JEL inspection comments-</i>		Substr: 5 Fair
<i>DECK- DELAMINATIONS AND SPALLS WITH REBAR EXPOSED.</i>		Culvert: N N/A (NBI)
<i>SUPERSTRUCTURE- PAINT HEAVILY PEELING IN SPANS ONE AND THREE.</i>		
<i>SUB. - TOP OF BACKWALL WITH DETERIORATION AT NORTHEAST AND NORTHWEST.</i>		
<i>BACKWALLS SPALLED AT FAILED PATCHES.</i>		

Inspection Date: 03/03/2004	Inspector: JEL	Deck: 4 Poor
Notes:		Super: 7 Good
<i>Sufficiency Rating Calculation Accepted by DEP at 7/1/2004 11:49:43</i>		Substr: 6 Satisfactory
<i>JEL inspection comments -</i>		Culvert: N N/A (NBI)
<i>SUPERSTRUCTURE- PAINT HEAVILY PEELING IN SPANS ONE AND THREE.</i>		

PICTURE B199- 13. PAINT HEAVILY PEELING TYPICAL IN SPANS ONE AND THREE.

Bridge Inspection Report**Manchester 146/065****Inspection History:**

Inspection Date: 11/03/2003	Inspector: FNM	Deck: 4 Poor
Notes:		Super: 7 Good
Sufficiency Rating Calculation Accepted by DEP at 6/2/2004 14:03:52		Substr: 6 Satisfactory
FNM inspection comments-		Culvert: N N/A (NBI)

Inspection Date: 03/10/2003	Inspector: FNM	Deck: 4 Poor
Notes:		Super: 7 Good
FNM inspection comments -		Substr: 6 Satisfactory
SUPERSTRUCTURE: PAINT NOTICEBLY PEELING OFF BEAMS SINCE LAST INSPECTION.		Culvert: N N/A (NBI)

B166-

01. TYPICAL AREA AT SOUTH WITH PAINT PEELED COMPLETELY FROM I-BEAMS.
02. MEDIUM SPALL AT SOUTH (TYPICAL OF SEVERAL)

Inspection Date: 11/13/2002	Inspector: FNM	Deck: 4 Poor
Notes:		Super: 7 Good
FNM inspection comments -		Substr: 6 Satisfactory
DECK: ASPHALT-PATCHED AT SOUTH EXPANSION JOINT.		Culvert: N N/A (NBI)
SUPER: BEARINGS AND BEAM ENDS REPAINTED AT SOUTH.		

Inspection Date: 03/07/2002	Inspector: JEL	Deck: 4 Poor
Notes:		Super: 7 Good
Sufficiency Rating Calculation Accepted by DEP at 07/23/2002 12:59:57		Substr: 6 Satisfactory
JEL inspection comments -		Culvert: N N/A (NBI)
APPROACH RAIL DAMAGED AT SOUTHEAST, BROKEN POST. APPROACH RAIL AT SW REPAIRED. SOUTH DECK END AND TOP OF BACKWALL PAVEMENT POTHOLED AND CRACKED.		

PICTURES B143-

19. APPROACH RAIL DAMAGED AT SOUTHEAST, POST BROKEN.
20. SOUTH DECK END AND TOP OF BACKWALL PAVEMENT POTHOLED AND CRACKED.

Inspection Date: 10/24/2001	Inspector: FNM	Deck: 4 Poor
Notes:		Super: 7 Good
FNM inspection comments -		Substr: 6 Satisfactory
APPROACH RAIL DAMAGED AT SW.		Culvert: N N/A (NBI)

Inspection Date: 03/19/2001	Inspector: JEL	Deck: 4 Poor
Notes:		Super: 7 Good
JEL inspection comments -		Substr: 6 Satisfactory
TWO BROKEN POST AND ACCIDENT DAMAGE TO RAIL AT TERMINAL, SOUTHWEST. BACKWALLS AND DECK ENDS WITH PAVEMENT CRACKED AND POTHOLED. CONTINUED DETERIORATION OF CONCRETE DECK. BEAMS WITH PAINT PEELING, CONTINUED DETERIORATION.		Culvert: N N/A (NBI)

- B124-24. TWO BROKEN POST AND ACCIDENT DAMAGE TO RAIL AT TERMINAL, SOUTHWEST.

Bridge Inspection Report**Manchester 146/065****Inspection History:**

Inspection Date: 11/09/2000	Inspector: JEL	Deck: 4 Poor Super: 7 Good Substr: 6 Satisfactory Culvert: N N/A (NBI)
Notes: <i>JEL inspection comments -</i> NEW APPROACH RAIL AND TERMINALS AT SOUTH. DECK ENDS CRACKED AND DETERIORATED WITH TOP OF BACKWALL EXPOSED AND SPALLED AT NORTHEAST. CONCRETE CURBS SPALLED WITH REBAR EXPOSED. PICTURES B114- 32. SOUTH APPROACH. 33. NORTHEAST DECK END, PATCH FAILING, TOP OF BACKWALL EXPOSED AND SPALLED.		
Inspection Date: 03/10/2000	Inspector: FNM	Deck: 4 Poor Super: 7 Good Substr: 6 Satisfactory Culvert: N N/A (NBI)
Notes: <i>Sufficiency Rating Calculation Accepted by DEP at 10-11-2000 08:15:37</i> <i>FNM inspection comments -</i>		
Inspection Date: 09/07/1999	Inspector: FNM	Deck: 4 Poor Super: 7 Good Substr: 6 Satisfactory Culvert: N N/A (NBI)
Notes: <i>Sufficiency Rating Calculation Accepted by DEP at 12-10-1999 16:31:45</i> <i>FNM inspection comments -</i> ADDED TO REDLIST THIS DATE. DECK: ASPHALT -LIGHT CRACKS, SETTLED AT SW DECK END. CONCRETE - SEVERAL DELAMINATIONS, MEDIUM SPALLS AND LEAKING. CURBS - HEAVILY SPALLED AT EAST WITH REBAR EXPOSED. COMPRESSION SEAL LEAKING WITH MINOR ABRASIONS, STOP BARS DOWN. SUPERSTRUCTURE: BEARINGS RUSTED WITH SECTION LOSS UNDER LEAKAGE. I-BEAMS - HEAVY RUST AND SCALE WITH MINOR SECTION LOSS. PAINT PEELING OFF AND POOR IN AREAS. SUBSTRUCTURE: BACKWALLS SPALLED AT FAILED PATCHES. PICTURES: B054-01 to 06		
Inspection Date: 05/01/1997	Inspector: Not Available	Deck: 5 Fair Super: 8 Very Good Substr: 6 Satisfactory Culvert: N N/A (NBI)
Notes: <i>Sufficiency Rating Calculation Accepted by DEP at 12-23-98 08:07:21</i>		
Inspection Date: 04/01/1995	Inspector: Not Available	Deck: 5 Fair Super: 8 Very Good Substr: 6 Satisfactory Culvert: N N/A (NBI)
Notes:		
Inspection Date: 07/01/1993	Inspector: Not Available	Deck: 6 Satisfactory Super: 8 Very Good Substr: 7 Good Culvert: N N/A (NBI)
Notes:		
Inspection Date: 06/01/1991	Inspector: Not Available	Deck: 6 Satisfactory Super: 8 Very Good Substr: 7 Good Culvert: N N/A (NBI)
Notes:		

Bridge Inspection Report

Manchester 146/065

Copy Distribution:

- ☐ (2) Bureau of Municipal Hghways
- ☐ (3) Bureau of Municipal Hghways
- ☒ Bureau of Turnpikes

- ☐ Border State
- ☐ Bureau of Rail and Transit
- ☐ Army Corps Of Engineers
- ☐ Railroad

- ☐ Dept. of Res. and Econ. Dev.
- ☐ Dept. of Environmental Services
- ☐ USDA Forest Service
- ☐ Bureau of Traffic

Bridge Inspection Report**Manchester 149/063****Date of Inspection:** 11/07/2007

I-293,FEE TPK

Date Report Sent: 1/22/2008

Over

☒ Picture taken during inspection

SPUR D

Owner: Turnpike Bureau, NHDOT

Interstate Bridge Number: 021**Recommended Postings:**

Weight: No Posting Required

☒ Weight Sign OK

Width: Not Required

☒ Width Sign OKPrimary Height Sign Recommendation: *None*Optional Centerline Height Sign Rec: *None***Clearances:** Over:
(Feet) Under: 16.42
Route:☒ Height Signs OK**Condition:** State Redlist

Deck: 4 Poor

Superstructure: 6 Satisfactory

Substructure: 5 Fair

Culvert: N N/A (NBI)

Structure Type and Materials:

Number of Spans Main Unit: 3

Number of Approach Spans: 0

Main Span Material and Design Type

Steel Continuous Multiple Beam

Sufficiency Rating: 57.8%**NBI Status:** Structurally Deficient

Bridge Rail: Substandard

Rail Transition: Substandard

Bridge Approach Rail: Substandard

Approach Rail Ends: Substandard

NH Bridge Type: I Beams w/ Concrete Deck

Deck Type: Concrete, Cast in Place

Wearing Surface: Bituminous

Membrane: Other

Deck Protection: None

Pavement thickness: Not Applicable

Curb Reveal: 6.3 in

Plan Location: Unknown

Bridge Dimensions:

Length Maximum Span: 55.0 ft

Left Curb/Sidewalk Width: 0.8 ft

Width Curb to Curb: 62.0 ft

Approach Roadway Width (W/ Shoulders): 62.0 ft

Total Bridge Length: 149.0 ft

Right Curb/Sidewalk Width: 0.8 ft

Total Bridge Width: 73.8 ft

Median: Closed Med w/Barriers

Bridge Skew: 35.00 °

Bridge Service:

Type of Service on Bridge: Highway

Type of Service under: Highway

Lanes on bridge: 4

Lanes Under: 2

AADT: 67000

Percent Trucks: 6%

Year of AADT: 2003

Future AADT: 99160

Year of Future AADT: 2025

Year Built: 1957

Year Rebuilt: Not Rebuilt

Detour Length: 4.0 mi

Bridge Inspection Report

Manchester 149/063

Federal or State Definition Bridge: Fed. Definition Bridge
 Roadway Functional Class: Urban Interstate
 New Hampshire Highway System and Class: Interstate (Turnpike)
 Eligibility for the National Register of Historic Places: Not Eligible
 Traffic Direction: Two-way traffic

National Bridge Inventory (NBI) Appraisal Ratings:

Deck Geometry: Minimum Tolerable
 Underclearances: Above Min. Tolerable
 Approach Alignment: Equal Desirable Criteria
 Structural Evaluation: Above Min. Tolerable
 Channel/Channel Protection: Not Applicable (NBI)
 Waterway Adequacy: Not Applicable (NBI)
 Bridge Scour Critical Status: Not Over Waterway
 Riprap Condition: Not Applicable
 Debris Present: Not Applicable
 Date of Underwater Inspection: Not Applicable

AASHTO CoRe Element Condition State Data:

No.	Description	Env.	Material Notes and Condition Notes
14	Concrete Deck - Protected w/ Membrane and Pavement	Severe	ASPHALT -CRACKS. CONCRETE CURB HEAVILY SPALLED AT WEST. ASPHALT POTHOLED AT SOUTH END OF NB LANE
107	Painted Steel Beam or Girder (Open Web)	Severe	WEST HALF OF BRIDGE WITH HEAVY PEELING RUSTED WITH MINOR SECTION LOSS UNDER LEAKAGE.
205	Reinforced Concrete Column or Pile Extension	Severe	
215	Reinforced Concrete Abutment	Severe	LIGHT CRACKS AND SPALLS REBAR EXPOSED AT NORTH.
234	Reinforced Concrete Cap	Severe	
301	Pourable Joint Seal (Includes Asphaltic Plug)	Severe	PLUG TYPE
302	Compression Joint Seal	Severe	

Bridge Inspection Report

Manchester 149/063

No.	Description	Env.	Material Notes and Condition Notes
311	Moveable Bearing (roller, sliding, etc.)	Severe	ROCKERS RUSTED WITH LIGHT SCALE, MINOR SECTION LOSS.
313	Fixed Bearing	Severe	
330	Uncoated Metal Bridge Railing	Benign	** 2-Bar Aluminum ** Chainlink
334	Coated Metal Bridge Railing	Low	** Thrie Beam ** MEDIAN RAIL
359	Soffit of Conc Deck or Slab Condition Warning Flag	Severe	HEAVY SPALLING WITH REBAR EXPOSED AND RUSTED. SEVERAL LARGE DELAMINATED AREAS. RUST STAINING. SEVERAL FULL DEPTH PATCHES. LIGHT LEAKING. AREA IN SPAN TWO SPALLED W/REBAR EXPOSED AND DELAMINATED OVER TRAFFIC.

No.	Description	Env.	Quantity	Units	State 1	State 2	State 3	State 4	State 5
14	Concrete Deck - Protected w/ Membrane	Severe	11,001	(SF)	0 %	100 %	0 %	0 %	0 %
107	Painted Steel Beam or Girder (Open Web)	Severe	1,490	(LF)	40 %	10 %	40 %	10 %	0 %
205	Reinforced Concrete Column or Pile Extension	Severe	12	(EA)	100 %	0 %	0 %	0 %	
215	Reinforced Concrete Abutment	Severe	177	(LF)	0 %	80 %	20 %	0 %	
234	Reinforced Concrete Cap	Severe	151	(LF)	100 %	0 %	0 %	0 %	
301	Pourable Joint Seal (Includes Asphaltic)	Severe	75	(LF)	100 %	0 %	0 %		
302	Compression Joint Seal	Severe	151	(LF)	100 %	0 %	0 %		
311	Moveable Bearing (roller, sliding, etc.)	Severe	30	(EA)	60 %	30 %	10 %		
313	Fixed Bearing	Severe	10	(EA)	100 %	0 %	0 %		
330	Uncoated Metal Bridge Railing	Benign	299	(LF)	100 %	0 %	0 %	0 %	
334	Coated Metal Bridge Railing	Low	597	(LF)	100 %	0 %	0 %	0 %	0 %
359	Soffit of Conc Deck or Slab Condition Warning	Severe	1	(EA)	0 %	0 %	0 %	0 %	100 %

Bridge Notes:

Approach and Roadway Notes: ASPHALT - LIGHT TRANSVERSE CRACKS AT SOUTHWEST DECK END

Bridge Inspection Report**Manchester 149/063****Inspection History:**

Inspection Date: 11/07/2007	Inspector: FNM	Deck: 4 Poor Super: 6 Satisfactory Substr: 5 Fair Culvert: N N/A (NBI)
Notes: FNM inspection comments - DECK: ASPHALT- SMALL POTHOLE IN ASPHALT AT SOUTH END OF NB HIGH SPEED LANE SOFFIT- HEAVY SPALLING WITH REBAR EXPOSED AND RUSTED. SEVERAL LARGE DELAMINATED AREAS. RUST STAINING. SEVERAL FULL DEPTH PATCHES. LIGHT LEAKING. AREA IN SPAN TWO SPALLED W/REBAR EXPOSED AND DELAMINATED OVER TRAFFIC. PICTURE: B323- 23. SMALL POTHOLE IN ASPHALT AT SOUTH END OF NB HIGH SPEED LANE.		
Inspection Date: 03/26/2007	Inspector: FNM	Deck: 4 Poor Super: 6 Satisfactory Substr: 5 Fair Culvert: N N/A (NBI)
Notes: FNM inspection comments - DECK: POTHOLE IN ASPHALT AT SOUTH END OF NB LANE. PICTURE: B303-24. 3 FOOT DIAMETER POTHOLE AT SOUTH END OF NB LANE, CONCRETE EXPOSED. (ATTEMPT AT PATCH FAILED)		
Inspection Date: 11/06/2006	Inspector: FNM	Deck: 4 Poor Super: 6 Satisfactory Substr: 5 Fair Culvert: N N/A (NBI)
Notes: FNM inspection comments - DECK: POTHOLE IN ASPHALT AT SOUTH END OF NB LANE. PICTURE: B295-9.		
Inspection Date: 03/09/2006	Inspector: JEL	Deck: 4 Poor Super: 6 Satisfactory Substr: 5 Fair Culvert: N N/A (NBI)
Notes: JEL inspection comments - DECK: CURB HEAVILY SPALLED AT WEST. SOFFIT: HEAVY SPALLING WITH REBAR EXPOSED AND RUSTED. SEVERAL LARGE DELAMINATED AREAS. RUST STAINING. SEVERAL FULL DEPTH PATCHES. LIGHT LEAKING. AREA IN SPAN TWO SPALLED W/REBAR EXPOSED AND DELAMINATED OVER TRAFFIC. SUPER: HEAVY PAINT PEELING SUB: LIGHT CRACKS AND SPALLS REBAR EXPOSED AT NORTH. B275- 13-16		
Inspection Date: 11/08/2005	Inspector: JEL	Deck: 4 Poor Super: 6 Satisfactory Substr: 5 Fair Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 02/22/2006 15:25:51 JEL inspection comments - DECK: CURB HEAVILY SPALLED AT WEST. SOFFIT: HEAVY SPALLING WITH REBAR EXPOSED AND RUSTED. SEVERAL LARGE DELAMINATED AREAS. RUST STAINING. SEVERAL FULL DEPTH PATCHES. LIGHT LEAKING. SUPER: HEAVY PAINT PEELING SUB: LIGHT CRACKS AND SPALLS REBAR EXPOSED AT NORTH. B267-20. TYPICAL VIEW OF HEAVY PAINT PEELING, DECK UNDERSIDE.		

Bridge Inspection Report**Manchester 149/063****Inspection History:**

Inspection Date: 03/30/2005	Inspector: FNM	Deck: 4 Poor
Notes: <i>FNM inspection comments - DECK: CURB HEAVILY SPALLED AT WEST.</i>		Super: 6 Satisfactory
		Substr: 5 Fair
		Culvert: N N/A (NBI)

Inspection Date: 11/03/2004	Inspector: FNM	Deck: 4 Poor
Notes: <i>FNM inspection comments - DECK: FEW SMALL DELAMINATIONS OVER TRAFFIC. CONCRETE CURB AT NW WITH SPALLED SECTION AT JOINT.</i>		Super: 6 Satisfactory
		Substr: 5 Fair
		Culvert: N N/A (NBI)

PICTURES: B225-

04. SOUTH APPROACH (SHOWING CHAINLINK AT WEST RAIL, TYPICAL OF EAST).

05. WEST ELEVATION (SHOWING CHAINLINK AT WEST RAIL, TYPICAL OF EAST).

Inspection Date: 03/02/2004	Inspector: FNM	Deck: 4 Poor
Notes: <i>Sufficiency Rating Calculation Accepted by DEP at 7/1/2004 11:49:43 FNM inspection comments - SUPERSTRUCTURE: I-BEAMS- PAINT PEELING AND CURLING ON WEST HALF OF BRIDGE BEAMS.</i>		Super: 6 Satisfactory
		Substr: 5 Fair
		Culvert: N N/A (NBI)

PICTURES: B199-

10. PAINT PEELING FROM BEAMS AT WEST EXTERIOR (TYPICAL OF WEST HALF OF BRIDGE).

11. PAINT CHIPS COVERING EMBANKMENT AT NORTH (TYPICAL OF SOUTH).

Inspection Date: 11/03/2003	Inspector: JEL	Deck: 4 Poor
Notes: <i>Sufficiency Rating Calculation Accepted by DEP at 6/2/2004 14:03:52 JEL inspection comments - DECK- ASPHALT, REPAVED 2003 AT DECKENDS. OVERALL HEAVY PAINT PEELING.</i>		Super: 6 Satisfactory
		Substr: 5 Fair
		Culvert: N N/A (NBI)

Inspection Date: 03/06/2003	Inspector: JEL	Deck: 4 Poor
Notes: <i>JEL inspection comments - DECK- ASPHALT, POTHOLES AT NORTH DECK END, NORTHBOUND AND SOUTHBOUND LANES. I-BEAMS IN SPAN TWO WITH PAINT PEELING.</i>		Super: 6 Satisfactory
		Substr: 5 Fair
		Culvert: N N/A (NBI)

PICTURES B165-

20. I-BEAMS IN SPAN TWO WITH PAINT PEELING.

21. DECK- ASPHALT, POTHOLE AT NORTH DECK END, NORTHBOUND LANE.

22. DECK- ASPHALT, POTHOLE AT NORTH DECK END, SOUTHBOUND LANE.

Inspection Date: 11/12/2002	Inspector: JEL	Deck: 4 Poor
Notes: <i>JEL inspection comments -</i>		Super: 6 Satisfactory
		Substr: 5 Fair
		Culvert: N N/A (NBI)

Bridge Inspection Report**Manchester 149/063****Inspection History:**

Inspection Date: 03/07/2002	Inspector: FNM	Deck: 4 Poor Super: 6 Satisfactory Substr: 5 Fair Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 07/23/2002 12:59:57 FNM inspection comments-		
Inspection Date: 10/23/2001	Inspector: FNM	Deck: 4 Poor Super: 6 Satisfactory Substr: 5 Fair Culvert: N N/A (NBI)
Notes: FNM inspection comments - PICTURE: B137-07. CURB HEAVILY SPALLED AT WEST.		
Inspection Date: 03/16/2001	Inspector: FNM	Deck: 4 Poor Super: 6 Satisfactory Substr: 5 Fair Culvert: N N/A (NBI)
Notes: FNM inspection comments - PICTURES: B124- 19. CURB HEAVILY SPALLED WITH VEGETATION GROWING. 20. SMALL HOLE WITH ASPHALT BREAKING UP AT APPROACH SIDE OF NORTH DECK END.		
Inspection Date: 11/09/2000	Inspector: FNM	Deck: 4 Poor Super: 7 Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes: FNM inspection comments - PLUG TYPE SEAL ADDED 2000		
Inspection Date: 03/10/2000	Inspector: FNM	Deck: 4 Poor Super: 8 Very Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 10-11-2000 08:15:37 JEL inspection comments - REPAIRS TO MEDIAN AT SOUTH, TWO BRIDGE POST MISSING		
Inspection Date: 09/07/1999	Inspector: JEL	Deck: 4 Poor Super: 8 Very Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 12-10-1999 16:31:45 JEL inspection comments - RAIL-ALUMINUM / WEATHERING STEEL THRIE BEAM AT CENTER MEDIAN-COLLISION DAMAGE AT SOUTH DECK-CONCRETE- POOR, DELAMINATIONS, SPALLS WITH REBAR EXPOSED AND RUSTED, RUST STAINS SUPER- I-BEAMS, LARGE PEELED AREA AT STRINGER THREE SPAN 2, TYPICAL OF OTHER AREAS SUB.-CONCRETE, LIGHT CRACKS AND SPALLS		
Inspection Date: 05/01/1997	Inspector: Not Available	Deck: 5 Fair Super: 8 Very Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes:		
Inspection Date: 04/01/1995	Inspector: Not Available	Deck: 5 Fair Super: 8 Very Good Substr: 7 Good Culvert: N N/A (NBI)
Notes:		

Bridge Inspection Report

Manchester 149/063

Inspection History:

Inspection Date: 07/01/1993

Inspector: Not Available

Deck: 6 Satisfactory

Notes:

Super: 8 Very Good

Substr: 7 Good

Culvert: N N/A (NBI)

Bridge Lighting and Utilities: *SMALL PIPE AT CENTERLINE*

Copy Distribution:

- ☐ (2) Bureau of Municipal Hghways
- ☐ (3) Bureau of Municipal Hghways
- ☒ Bureau of Turnpikes

- ☐ Border State
- ☐ Bureau of Rail and Transit
- ☐ Army Corps Of Engineers
- ☐ Railroad

- ☐ Dept. of Res. and Econ. Dev.
- ☐ Dept. of Environmental Services
- ☐ USDA Forest Service
- ☐ Bureau of Traffic

Bridge Inspection Report**Manchester 153/061****Date of Inspection:** 11/05/2007

I-293 RAMP

Date Report Sent: 1/22/2008

Over

☐ Picture taken during inspection

I-293, FEE TPK

Owner: Turnpike Bureau, NHDOT

Interstate Bridge Number: 019**Recommended Postings:**

Weight: No Posting Required

☒ Weight Sign OK

Width: Not Required

☒ Width Sign OKPrimary Height Sign Recommendation: *None*Optional Centerline Height Sign Rec: *None***Clearances:** Over:
(Feet) Under: 16.08
Route: 16.08☒ Height Signs OK**Condition:** State Redlist

Deck: 4 Poor

Superstructure: 6 Satisfactory

Substructure: 5 Fair

Culvert: N N/A (NBI)

Structure Type and Materials:

Number of Spans Main Unit: 4

Number of Approach Spans: 0

Main Span Material and Design Type

Steel Continuous Multiple Beam

Sufficiency Rating: 64.9%**NBI Status:** Structurally Deficient

Bridge Rail: Substandard

Rail Transition: Meets Standards

Bridge Approach Rail: Meets Standards

Approach Rail Ends: Substandard

NH Bridge Type: I Beams w/ Concrete Deck

Deck Type: Concrete, Cast in Place

Wearing Surface: Bituminous

Membrane: Other

Deck Protection: None

Pavement thickness: Not Applicable

Curb Reveal: 6.0 in

Plan Location: Unknown

Bridge Dimensions:

Length Maximum Span: 78.0 ft

Left Curb/Sidewalk Width: 0.7 ft

Width Curb to Curb: 20.0 ft

Approach Roadway Width (W/ Shoulders): 20.0 ft

Total Bridge Length: 252.0 ft

Right Curb/Sidewalk Width: 0.7 ft

Total Bridge Width: 25.8 ft

Median: No median

Bridge Skew: 45.00 °

Bridge Service:

Type of Service on Bridge: Highway

Type of Service under: Highway

Lanes on bridge: 1

Lanes Under: 4

AADT: 67000

Percent Trucks: 6%

Year of AADT: 2003

Future AADT: 99160

Year of Future AADT: 2025

Year Built: 1956

Year Rebuilt: Not Rebuilt

Detour Length: 1.0 mi

Bridge Inspection Report**Manchester 153/061**

Federal or State Definition Bridge: Fed. Definition Bridge
 Roadway Functional Class: Urban Interstate
 New Hampshire Highway System and Class: Interstate (Turnpike)
 Eligibility for the National Register of Historic Places: Not Eligible
 Traffic Direction: One-way traffic

National Bridge Inventory (NBI) Appraisal Ratings:

Deck Geometry: Above Min. Tolerable
 Underclearances: Minimum Tolerable
 Approach Alignment: Equal Desirable Criteria
 Structural Evaluation: Above Min. Tolerable
 Channel/Channel Protection: Not Applicable (NBI)
 Waterway Adequacy: Not Applicable (NBI)
 Bridge Scour Critical Status: Not Over Waterway
 Riprap Condition: Not Applicable
 Debris Present: Not Applicable
 Date of Underwater Inspection: Not Applicable

AASHTO CoRe Element Condition State Data:

No.	Description	Env.	Material Notes and Condition Notes
14	Concrete Deck - Protected w/ Membrane and Pavement	Severe	ASPHALT- SEVERAL LIGHT CRACKS. CURBS HEAVILY SPALLED WITH AREAS OF LOOSE CONCRETE.
107	Painted Steel Beam or Girder (Open Web)	Severe	4 I-BEAMS HEAVY RUST AND SCALE WITH LIGHT SECTION LOSS ON WEBS OF STRINGER 1 AND 4 AT BOTH ABUTMENTS. MINOR SECTION LOSS ON FLANGES.
205	Reinforced Concrete Column or Pile Extension	Severe	
215	Reinforced Concrete Abutment	Severe	LIGHT CRACKS WITH RUST STAINING, MEDIUM SPALL AT SE AND SW WITH REBAR EXPOSED. BACKWALLS CAPPED 2000.
234	Reinforced Concrete Cap	Severe	
302	Compression Joint Seal	Severe	ARMOR PROTECTION INSTALLED 2000.
311	Moveable Bearing (roller, sliding, etc.)	Severe	16 - ROCKERS RUSTED WITH SECTION LOSS UNDER LEAKAGE.

Bridge Inspection Report

Manchester 153/061

No.	Description	Env.	Material Notes and Condition Notes
313	Fixed Bearing	Moderate	
330	Uncoated Metal Bridge Railing	Benign	** 2-Bar Aluminum ** CHAINLINK ADDED. MINOR SCRAPES
359	Soffit of Conc Deck or Slab Condition Warning Flag	Severe	HEAVY SPALLING AND LEAKING AT SPAN 2 SOUTH EXTERIOR. SEVERAL DELAMINATIONS OVER TRAFFIC. LIGHT SPALLS, PATCHES CRACKED AND FAILING.

No.	Description	Env.	Quantity	Units	State 1	State 2	State 3	State 4	State 5
14	Concrete Deck - Protected w/ Membrane	Severe	6,501	(SF)	0 %	100 %	0 %	0 %	0 %
107	Painted Steel Beam or Girder (Open Web)	Severe	1,007	(LF)	41 %	26 %	25 %	8 %	0 %
205	Reinforced Concrete Column or Pile Extension	Severe	9	(EA)	100 %	0 %	0 %	0 %	
215	Reinforced Concrete Abutment	Severe	118	(LF)	0 %	80 %	20 %	0 %	
234	Reinforced Concrete Cap	Severe	105	(LF)	100 %	0 %	0 %	0 %	
302	Compression Joint Seal	Severe	69	(LF)	90 %	10 %	0 %		
311	Moveable Bearing (roller, sliding, etc.)	Severe	16	(EA)	50 %	50 %	0 %		
313	Fixed Bearing	Moderate	4	(EA)	100 %	0 %	0 %		
330	Uncoated Metal Bridge Railing	Benign	591	(LF)	100 %	0 %	0 %	0 %	
359	Soffit of Conc Deck or Slab Condition Warning	Severe	1	(EA)	0 %	0 %	0 %	100 %	0 %

Bridge Notes:

DEBRIS NETTING PLACED UNDER DECK OVER TRAFFIC IN 2007.

Approach and Roadway Notes: ASPHALT- REPAVED 2007

Inspection History:

Inspection Date: 11/05/2007

Inspector: FNM

Deck: 4 Poor

Notes:

Super: 6 Satisfactory

FNM inspection comments -

Substr: 5 Fair

DECK: ASPHALT- REPAVED 2007. CURBS HEAVILY SPALLED WITH AREAS OF LOOSE CONCRETE FULL LENGTH.

Culvert: N N/A (NBI)

SOFFIT: HEAVY SPALLING AND LEAKING AT SPAN 2 SOUTH EXTERIOR. LIGHT SPALLS, PATCHES CRACKED AND FAILING.

NETTING PLACED UNDER DECK OVER TRAFFIC IN 2007.

SUPERSTRUCTURE: MODERATE RUST AND SCALE WITH LIGHT SECTION LOSS ON WEBS OF STRINGERS 1 AND 4 AT BOTH ABUTMENTS.

MINOR SECTION LOSS ON FLANGES AT ENDS.

SUB: LIGHT CRACKS WITH RUST STAINING, MEDIUM SPALL AT SE AND SW WITH REBAR EXPOSED.

Bridge Inspection Report**Manchester 153/061****Inspection History:****Inspection Date:** 03/26/2007**Inspector:** FNM**Deck:** 3 Serious**Notes:****Super:** 6 Satisfactory*FNM inspection comments -***Substr:** 5 Fair*DECK: ASPHALT-SEVERAL LIGHT CRACKS. CURBS HEAVILY SPALLED WITH AREAS OF LOOSE CONCRETE FULL LENGTH.***Culvert:** N N/A (NBI)*SOFFIT: HEAVY SPALLING AND LEAKING AT SPAN 2 SOUTH EXTERIOR. SEVERAL DELAMINATIONS OVER TRAFFIC. ONE LOOSE OVER NB HIGH SPEED LANE. LIGHT SPALLS, PATCHES CRACKED AND FAILING.**SUPERSTRUCTURE: MODERATE RUST AND SCALE WITH LIGHT SECTION LOSS ON WEBS OF STRINGER 1 AND 4 AT BOTH ABUTMENTS. MINOR SECTION LOSS ON FLANGES AT ENDS.**SUB: LIGHT CRACKS WITH RUST STAINING, MEDIUM SPALL AT SE AND SW WITH REBAR EXPOSED.**PICTURE: B303- 28. DELAMINATION OVER NB TRAFFIC AT NORTH EDGE SPAN THREE.***Inspection Date:** 11/06/2006**Inspector:** JEL**Deck:** 4 Poor**Notes:****Super:** 6 Satisfactory*JEL inspection comments -***Substr:** 5 Fair*DECK: ASPHALT-SEVERAL LIGHT CRACKS. CURBS HEAVILY SPALLED WITH AREAS OF LOOSE CONCRETE FULL LENGTH.***Culvert:** N N/A (NBI)*SOFFIT: HEAVY SPALLING AND LEAKING AT SPAN 2 SOUTH EXTERIOR. SEVERAL DELAMINATIONS OVER TRAFFIC.**LIGHT SPALLS, PATCHES CRACKED AND FAILING.**SUPERSTRUCTURE: MODERATE RUST AND SCALE WITH LIGHT SECTION LOSS ON WEBS OF STRINGER 1 AND 4 AT BOTH ABUTMENTS.**MINOR SECTION LOSS ON FLANGES AT ENDS.**SUB: LIGHT CRACKS WITH RUST STAINING, MEDIUM SPALL AT SE AND SW WITH REBAR EXPOSED.**B-295:**07. DELAMINATION OVER TRAFFIC**08. DELAMINATIONS OVER TRAFFIC BAY TWO AND THREE, SPAN TWO***Inspection Date:** 03/09/2006**Inspector:** FNM**Deck:** 4 Poor**Notes:****Super:** 6 Satisfactory*FNM inspection comments -***Substr:** 5 Fair*DECK: ASPHALT-SEVERAL LIGHT CRACKS. CURBS HEAVILY SPALLED WITH AREAS OF LOOSE CONCRETE FULL LENGTH.***Culvert:** N N/A (NBI)*SOFFIT: HEAVY SPALLING AND LEAKING AT SPAN 2 SOUTH EXTERIOR. SEVERAL DELAMINATIONS OVER TRAFFIC.**LIGHT SPALLS, PATCHES CRACKED AND FAILING.**SUPERSTRUCTURE: MODERATE RUST AND SCALE WITH LIGHT SECTION LOSS ON WEBS OF STRINGER 1 AND 4 AT BOTH ABUTMENTS.**MINOR SECTION LOSS ON FLANGES AT ENDS.**SUB: LIGHT CRACKS WITH RUST STAINING, MEDIUM SPALL AT SE AND SW WITH REBAR EXPOSED.**PICTURES: B275-9-12*

Bridge Inspection Report**Manchester 153/061****Inspection History:**

Inspection Date: 11/07/2005	Inspector: FNM	Deck: 4 Poor
Notes:		Super: 6 Satisfactory
Sufficiency Rating Calculation Accepted by DEP at 02/22/2006 15:25:51		Substr: 5 Fair
FNM inspection comments -		Culvert: N N/A (NBI)

PICTURE: B267-16. DELAMINATION OVER TRAFFIC NB HIGHSPEED LANE AT NORTH EDGE.

Inspection Date: 03/30/2005	Inspector: JEL	Deck: 4 Poor
Notes:		Super: 6 Satisfactory
JEL inspection comments -		Substr: 5 Fair
Date 3/30/2005 -		Culvert: N N/A (NBI)

DECK: ASPHALT- LIGHT CRACKS WITH CONCRETE LEACHING. SEVERAL LOOSE DELAMINATIONS IN SPAN TWO OVER SOUTHBOUND TRAFFIC. DELAMINATION OVER TRAFFIC NB HIGHSPEED LANE AT NORTH EDGE IN SPAN THREE.

B237-19: DELAMINATION OVER TRAFFIC NB HIGH SPEED LANE AT NORTH EDGE (STATE REDLIST)

Inspection Date: 11/02/2004	Inspector: JEL	Deck: 4 Poor
Notes:		Super: 6 Satisfactory
JEL inspection comments-		Substr: 5 Fair
DECK: ASPHALT - LIGHT CRACKS WITH CONCRETE LEACHING. SEVERAL LOOSE DELAMINATIONS IN SPAN TWO OVER SOUTHBOUND TRAFFIC.		Culvert: N N/A (NBI)

PICTURE: B225-

01. LOOSE CONCRETE OVER TRAFFIC AT SOUTH EDGE OVER SB LANE.
02. LOOSE CONCRETE OVER TRAFFIC AT NORTH EDGE OVER SB LANE.
03. SPALLS WITH REBAR EXPOSED AT SOUTHEAST ABUTMENT.

Inspection Date: 03/02/2004	Inspector: FNM	Deck: 4 Poor
Notes:		Super: 6 Satisfactory
Sufficiency Rating Calculation Accepted by DEP at 7/1/2004 11:49:43		Substr: 5 Fair
FNM inspection comments -		Culvert: N N/A (NBI)
DECK: ASPHALT-LIGHT CRACKS WITH CONCRETE LEACHING. SOFFITT-SEVERAL DELAMINATIONS OVER TRAFFIC.		

PICTURE: B199-

09. LOOSE CONCRETE OVER TRAFFIC AT SOUTH EDGE OVER NB LANE.
10. DELAM OVER TRAFFIC IN BAY TWO OVER SB LANE.

Inspection Date: 11/06/2003	Inspector: JEL	Deck: 4 Poor
Notes:		Super: 6 Satisfactory
Sufficiency Rating Calculation Accepted by DEP at 6/2/2004 14:03:52		Substr: 5 Fair
JEL inspection comments-		Culvert: N N/A (NBI)

MEDIAN POST DAMAGE UNDER BRIDGE, NORTH BOUND

DECK: FEW DELAMINATED AREAS OVER TRAFFIC. SEVERAL OVER SB TRAVEL LANE AND 1 LARGE OVER NB HIGH SPEED LANE AT NORTH EDGE).

PICTURES: B191-24. DELAMINATIONS OVER TRAFFIC SPAN TWO, TYPICAL SPAN THREE.

Bridge Inspection Report**Manchester 153/061****Inspection History:**

Inspection Date: 03/06/2003	Inspector: FNM	Deck: 4 Poor Super: 6 Satisfactory Substr: 5 Fair Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 11/03/2003 09:39:48 FNM inspection comments - DECK: FEW DELAMINATED AREAS OVER TRAFFIC. (2 OVER SB TRAVEL LANE AND 1 LARGE OVER NB HIGH SPEED LANE AT NORTH EDGE). PICTURES: B165-17, 18		
Inspection Date: 11/12/2002	Inspector: FNM	Deck: 4 Poor Super: 7 Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes: FNM inspection comments - PICTURES: B160- 21. EAST APPROACH (SHOWING NEW CHAINLINK FENCE ON BRIDGE). 22. SMALL DELAMINATION OVER SB TRAFFIC IN BAY 3.		
Inspection Date: 03/07/2002	Inspector: JEL	Deck: 4 Poor Super: 7 Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 07/23/2002 12:59:57 JEL inspection comments - CONTINUED DETERIORATION OF CONCRETE DECK, CONCRETE CURBS WITH MANY SPALLED AREAS. PICTURES: B143-18. LOOSE DELAMINATIONS AT NORTH EDGE, OVER SB TRAFFIC.		
Inspection Date: 10/22/2001	Inspector: FNM	Deck: 4 Poor Super: 7 Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes: FNM inspection comments - PICTURES: B137-04. DELAMINATION OVER TRAFFIC OVER NORTHBOUND LANE NORTH EXTERIOR. (TYP OF A FEW)		
Inspection Date: 03/16/2001	Inspector: FNM	Deck: 4 Poor Super: 7 Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes: FNM inspection comments - PICTURES: B124- 21. CURB SPALLED, CONCRETE LOOSE AT SOUTH 22. TERMINAL DAMAGED AT SE 23. DELAM OVER TRAFFIC (TYP OF FEW)		
Inspection Date: 11/07/2000	Inspector: FNM	Deck: 4 Poor Super: 7 Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes: FNM inspection comments -		
Inspection Date: 03/08/2000	Inspector: FNM	Deck: 4 Poor Super: 7 Good Substr: 5 Fair Culvert: N N/A (NBI)
Notes: Sufficiency Rating Calculation Accepted by DEP at 10-11-2000 08:15:37 FNM inspection comments - DECK: SMALL DELAMINATIONS OVER TRAFFIC.		

Bridge Inspection Report**Manchester 153/061****Inspection History:****Inspection Date:** 09/07/1999**Inspector:** FNM**Deck:** 4 Poor**Notes:****Super:** 7 Good

Sufficiency Rating Calculation Accepted by DEP at 12-10-1999 16:31:45

Substr: 5 Fair

FNM inspection comments -

Culvert: N N/A (NBI)

DECK: ASPHALT -CRACKED, PATCHED AT WEST DECK END.

CONCRETE -HEAVY SPALLING AND LEAKING AT SPAN 1 SOUTH EXTERIOR. SEVERAL DELAMINATIONS, FEW OVER TRAFFIC. LIGHT SPALLS, PATCHES CRACKED. CURBS -MEDIUM SPALLING AT SOUTH, LIGHT SPALLING AT NORTH. STRIP SEAL AND DECK ENDS LEAKING.

SUPERSTRUCTURE: BEARINGS RUSTED WITH SECTION LOSS UNDER LEAKAGE.

I-BEAMS -RUSTED WITH MINOR SECTION LOSS AT ENDS. MINOR COLLISION DAMAGE.

SUBSTRUCTURE: ABUTMENTS -LIGHT CRACKS WITH RUST STAINING, MEDIUM SPALL AT SE WITH REBAR EXPOSED. BACKWALL PATCHES FAILING, REPAIR AT SE.

ADDED TO REDLIST.

PICTURES: B054-20 to 26

Inspection Date: 05/01/1997**Inspector:** Not Available**Deck:** 5 Fair**Notes:****Super:** 7 Good

Sufficiency Rating Calculation Accepted by DEP at 12-23-98 08:07:22

Substr: 5 Fair**Culvert:** N N/A (NBI)**Inspection Date:** 04/01/1995**Inspector:** Not Available**Deck:** 5 Fair**Notes:****Super:** 7 Good**Substr:** 6 Satisfactory**Culvert:** N N/A (NBI)**Inspection Date:** 07/01/1993**Inspector:** Not Available**Deck:** 6 Satisfactory**Notes:****Super:** 8 Very Good**Substr:** 7 Good**Culvert:** N N/A (NBI)**Copy Distribution:**

- ☐ (2) Bureau of Municipal Hghways
☐ (3) Bureau of Municipal Hghways
☒ Bureau of Turnpikes

- ☐ Border State
☐ Bureau of Rail and Transit
☐ Army Corps Of Engineers
☐ Railroad

- ☐ Dept. of Res. and Econ. Dev.
☐ Dept. of Environmental Services
☐ USDA Forest Service
☐ Bureau of Traffic